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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

04/18/2008

EXAMINER

MCNALLY KERRII

Sofer & Haroun 317 Madison Avenue Suite 910 New York, NY 10017 MCNALLY, KERRI L

ART UNIT PAPER NUMBER

2612

DATE MAILED: 04/18/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565.472	01/19/2006	Stephane Dufosse	979-198	9895

TITLE OF INVENTION: SOUND-REPRODUCING TRANSDUCER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/18/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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Sofer & Harou 317 Madison Av Suite 910	venue	S	hereby certify that that the tates Postal Service of the Mai	nis Fee(s with suff 1 Stop	of Mailing or Trans) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the de	g deposited with the United st class mail in an envelope above, or being facsimile	
New York, NY	10017						(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/565,472 TITLE OF INVENTION	01/19/2006 J: SOUND-REPRODUC	ING TRANSDUCER	Stephane Dufosse			979-198	9895
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nonprovisional	NO	\$1440	\$300	\$0	•	\$1740	07/18/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
MCNALLY	Y, KERRI L	2612	340-388100	_			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	oondence address (or Cha B/122) attached. lication (or "Fee Address 02 or more recent) attack ND RESIDENCE DATA	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comj GNEE	ified below, no assignee pletion of this form is NO	data will appear on the T a substitute for filing (B) RESIDENCE: (CI	patent. If an assign an assignment. I'Y and STATE OR (COUNT	RY)	ocument has been filed for
Please check the appropr	riate assignee category or		<u> </u>				oup entity 🖵 Government
Advance Order -	No small entity discount p	 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 					
5. Change in Entity Sta	i tus (from status indicate ns SMALL ENTITY stati		☐ b. Applicant is no l	onger claiming SMA	II ENT	TTV status See 37 CI	FR 1.27(α)(2)
NOTE: The Issue Fee an	nd Publication Fee (if req		d from anyone other tha	-			ne assignee or other party in
interest as snown by the	records of the United Sta	ues Patent and Trademark	Conice.				
Authorized Signature				Date			
Typed or printed name				Registration I	No		
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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7590 04/18/2008			EXAMINER		
Sofer & Haroun			MCNALLY, KERRI L		
317 Madison Aven	ue		ART UNIT	PAPER NUMBER	
Suite 910)17		2612		
New York, NY 100)1 /		DATE MAILED: 04/18/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 129 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 129 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/565,472	DUFOSSE ET AL.				
Notice of Allowability	Examiner	Art Unit				
	KERRI L. MCNALLY	2612				
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	orrespondence address olication. If not included will be mailed in due course. THIS				
1. This communication is responsive to <u>02/26/2008</u> .						
2. The allowed claim(s) is/are <u>1-3 and 5</u> .						
3. Acknowledgment is made of a claim for foreign priority up a) All b) Some* c) None of the: 1. Certified copies of the priority documents have	,,,,,,					
· · · · · · · · · · · · · · · · · · ·						
2. Certified copies of the priority documents have						
3. Copies of the certified copies of the priority do	cuments have been received in this i	national stage application from the				
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.					
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached				
1) hereto or 2) to Paper No./Mail Date	•	,				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the						
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT						
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application				
Notice of Preferences Cited (1 10-032) Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary					
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7.	ė .				
Paper No./Mail Date4. Examiner's Comment Regarding Requirement for Deposit	<u>_</u>	ent of Reasons for Allowance				
of Biological Material	9. ☐ Other					

Application/Control Number: 10/565,472 Page 2

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DETAILED ACTION

1. **Claims 1, 2, 3, and 5** are allowed.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 2, 3, and 5, the instant application teaches and the prior art do not teach a sound-reproducing transducer connected to a printed circuit, the transducer having the shape of a hollow cylinder whose cylindrical wall delimits two circular faces, a front face and a rear face that are opposed and planar, the transducer comprising: at least one diaphragm for converting electrical signals into sound waves and vice-versa, the diaphragm being a circular membrane parallel to the front and rear face of the transducer, the diaphragm delimiting two distinct volumes in the transducer; the first volume, bordered on one side by the circular face of the transducer and on the other side by the diaphragm, this first volume forming a front acoustic cavity, and the second volume, bordered on one side by the circular face of the transducer and on the other side by the diaphragm, this second volume forming a rear acoustic cavity, wherein said cylindrical wall of the transducer includes at least one perforation, wherein said perforation is of substantially rectangular shape.

US Patent No. 6,385,328 (Yoo et al.) teaches an electro-acoustic transducer that functions as a buzzer, a receiver, and a micro-speaker for a portable electronic device wherein the transducer is connected to a magnetic circuit and has a top face and a bottom face that are parallel. In addition, the transducer comprises a circular vibration plate that is parallel to the faces of the transducer for converting electrical signals into sound waves. Yoo teaches that a diaphragm separates the transducer into two distinct cavities and a plurality of vent holes disposed in the bottom of the frame of the transducer to perform smooth vibrations of the diaphragm. In this case, Yoo is not obvious over the instant invention because Yoo does not expressly teach a perforation or hole on the cylindrical wall of the transducer, nor does Yoo teach a perforation that is rectangular.

US Patent Application Publication No. 2002/0101333 (Lu) teaches a siren wherein air vents on the sidewall draw in air and sound is generated by the impact between air and each block in the acoustic actuator. In this case, Lu is not obvious over the instant invention because Lu does not teach a rectangular perforation or hole in the cylindrical wall of the transducer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2612

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KERRI L. MCNALLY whose telephone number is (571)270-1840. The examiner can normally be reached on Monday - Friday 7:30 AM - 5:00 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Hofsass can be reached on 571-272-2981. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KLM

/Jeff Hofsass/

Supervisory Patent Examiner, Art Unit 2612